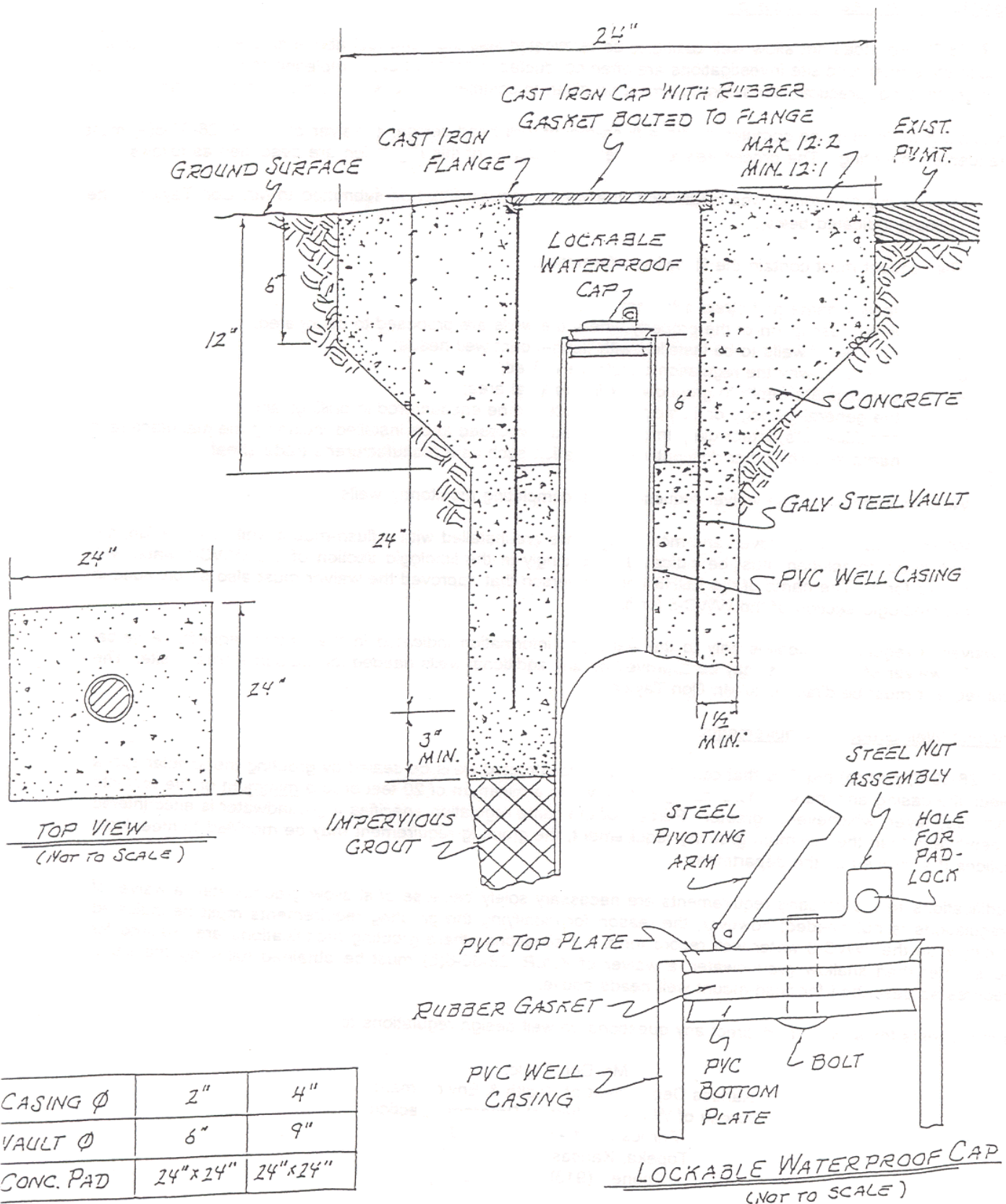


FLUSH-MOUNT WELL CONSTRUCTION DETAIL (Not to Scale)



MONITORING WELL DESIGN ADDITIONAL INSTRUCTIONS

Flush-Mount Well Head Completion:

K.A.R. 28-30-6(e) does not allow well casing to be terminated less than one foot above finished ground surface. Because state trust fund site investigations are often conducted in areas where completing monitoring well heads above grade is not practical, consideration must be given to completing flush-mount monitoring well heads.

If monitoring wells must be completed with a flush-mount well head design, a waiver of K.A.R. 28-30-6(e) must be requested in writing. The procedures for requesting a waiver of this regulation are described as follows:

1. Prior to the monitoring well installation, the written request must be submitted to Mr. Don Taylor at the address indicated below.
2. The request must contain the following information:
 - a. Facility name and street address;
 - b. Legal description of the property where the wells are proposed to be located;
_____ 1/4 _____ 1/4 _____ 1/4 Sec. _____ Town. _____ Range _____
 - c. Number of wells to be installed with flush-mount well heads;
 - d. Reason(s) why the regulation should be waived;
 - e. Approximate depth to groundwater in the local area;
 - f. The general geology or lithologies expected to be encountered in drilling; and
 - g. Specifications and/or diagrams of the vault proposed to be installed including the manufacturer's name and any other descriptive information such as a manufacturer's trade sheet.
3. Wait for approval of the waiver request before completing monitoring wells.
4. When waivers are approved and monitoring wells are installed with a flush-mount well head design, the well head completion must be indicated accordingly in the lithologic section of the WWC-5 water well record form. The name of the KDHE contact person that approved the waiver must also be provided in the lithologic section of the WWC-5 form.
5. Kansas licensed water well contractor and number.

Any waiver of regulations applies only to the wells and information indicated in the written request. A verbal request for waiver of regulations may be approved on any additional wells needed for the same area or site. The verbal request must be directed to Mr. Don Taylor.

Monitoring Well Grouting Requirements:

K.A.R. 28-30-6, part (b) requires that constructed or reconstructed wells be sealed by grouting the annular space between the casing and the well bore from ground level to a minimum of 20 feet or to a minimum of five feet into the first clay layer, whichever is greater. Part (c) of the same regulation specifies if groundwater is encountered at a depth less than the minimum grouting requirements, the grouting requirement may be modified to meet local conditions if approved by the department.

If modifications to the grouting requirements are necessary solely because of shallow groundwater, a waiver of the regulations is not needed; however, the reason for modifying the grouting requirements must be indicated accordingly on the WWC-5 water well record form. In situations where grouting modifications are required for reasons other than shallow groundwater, a waive of K.A.R. 28-30-6(b) must be obtained following the same procedures as described for flush-mount well heads above.

Submit requests for waivers and direct any questions on well design regulations to:

Mr. Don Taylor
Kansas Department of Health & Environment
Bureau of Water - Geology Section
1000 S.W. Jackson Street, Suite #420
Topeka, Kansas 66612-1367
Phone: (785) 296-5522